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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,514	11/10/2003	Bertram Gunzelmann	P2001,0329	4834
24131 7590 03/08/2007 LERNER GREENBERG STEMER LLP P O BOX 2480 HOLLYWOOD, FL 33022-2480			EXAMINER BOLOURCHI, NADER	
			ART UNIT	PAPER NUMBER
			2611	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/705,514

Applicant(s)

GUNZELMANN ET AL.

Examiner

Nader Bolourchi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 11/10/2003.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged.
2. Acknowledgment is made of applicant's claim for foreign priority filed in Germany on 5/8/2001 under 35 U.S.C. 119(a)-(d).

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 11/10/2003 have been considered and made of record by the examiner.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, **"a data line for serial data transmission"**, **"a bit clock line"**, **"a world clock line"**, **"a selection line"**, and **"a control line for driving power amplifier"** must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version

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of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

6. The abstract of the disclosure is objected to because: information after line 12 is redundant and must be deleted.

Correction is required. See MPEP § 608.01(b).

Claim Objection

7. Claims 17-19 are objected to because it is awkwardly written. The same can be improved if amended as follow:

In a A mobile radio system ~~having~~ comprising a base station and at least one mobile station, wherein the transmission configuration according to claim 1 is implemented in the mobile station for communication with the base station.

The same comment applies to claims 18 and 19.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

8. Claims 1-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Lucent (Lucent Technologies, "W7020 Bluetooth Radio Module," Preliminary Data Sheet, September 2000, 36 pages)

Regarding claim 1, Lucent discloses a transmission configuration (Fig. 2), comprising: a baseband component for processing a baseband signal (BASEBAND IC), said baseband component having an input/output configured for digital data transmission

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(see all input/outputs of BASEBAND IC connected to W7020 RADIO SUBSYSTEM through BASEBAND INTERFACE); a radio-frequency component for conversion of the baseband signal to a radio-frequency signal to be transmitted (W7020 RADIO SUBSYSTEM), said radio-frequency component having an input/output for digital data transmission (see those pins of W7020 RADIO SUBSYSTEM, which are connected to input/outputs of BASEBAND IC through BASEBAND INTERFACE) and being connected, via an interface (BASEBAND INTERFACE), to said input/output of said baseband component for digital transmission of payload data to be transmitted and of configuration data for configuration of said radio-frequency component; a first digital multiple conductor connection (DATA INTERFACE) for transmitting the payload data connected between said input/output of said baseband component and said input/output of said radio-frequency component; and a second digital multiple conductor connection (STROBE INPUTS) for transmitting the configuration data connected between said input/output of said baseband component and said input/output of said radio-frequency component; said first digital multiple conductor connection including: a data line for serial data transmission of payload data (pin 22: TX_DATA); a bit clock line for transmission of a clock signal (pin 2: TX_CLK), with in each case one bit of the data line being associated with in each case one clock period (TX data from baseband must be synchronized with TX_CLK, as recited in TABLE 2); and a word clock line for indicating a start of transmission of a sequence of bits on said data line (pin 34: SYS_CLK, a 13 MHZ reference clock output, as recited in TABLE 4; Also see Fig. 10).

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Regarding claim 2, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones)

Regarding claim 3, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the second digital multiple conductor connection comprises: a data line for serial data transmission of the configuration data (pin 27: SI_CDI (DATA)); a bit clock line for transmitting a clock signal (pin 25: SI_CLK), with one clock period each associated with one bit each on the data line (SI_CLK control timing of the serial interface, as recites in TABLE 6); and a selection line for activating the radio-frequency component (pin 9: POR_EXT, as recited in TABLE 3).

Regarding claim 4, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the transmission configuration comprises a synchronization line (pin 32: PX_ON), for synchronization of the payload data in said radio-frequency component, connected between said input/output of said baseband component and said input/output of said radio-frequency component (synchronization at first data packet, as recited in TABLE 3).

Regarding claim 5, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the input/output of said baseband component and said input/output of

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said radio-frequency component are serial data transmission interfaces (Serial Interface: page 12-13).

Regarding claim 6, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the input/output of said baseband component and said input/output of said radio-frequency component are serial data transmission interfaces are configured for unidirectional data transmission from said baseband component to said radio-frequency component (pin 27: SI_CDI (DATA)).

Regarding claim 7, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the transmission configuration further comprises a control line for driving a power amplifier (pin 3: TX_ON; Examiner notes that only after TX is turned on, TX AMPLIFIER shown in FIG. 1 is activated) for amplification of the radio-frequency signal connected between said baseband component and said radio-frequency component.

Regarding claim 8, Lucent discloses a transmission configuration (Fig. 2), comprising: a baseband component for processing a baseband signal (BASEBAND IC), said baseband component having an input/output configured for digital data transmission (see all input/outputs of BASEBAND IC connected to W7020 RADIO SUBSYSTEM through BASEBAND INTERFACE); a radio-frequency component for conversion of the baseband signal to a radio-frequency signal to be transmitted (W7020 RADIO SUBSYSTEM), said radio-frequency component having an input/output for digital data

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transmission (see those pins of W7020 RADIO SUBSYSTEM , which are connected to input/outputs of BASEBAND IC through BASEBAND INTERFACE) and being connected, via an interface (BASEBAND INTERFACE), to said input/output of said baseband component for digital transmission of payload data to be transmitted and of configuration data for configuration of said radio-frequency component; a first digital multiple conductor connection (DATA INTERFACE) for transmission of the payload data connected between said input/output of said baseband component and said input/output of said radio-frequency component; and a second digital multiple conductor connection (STROBE INPUTS) for transmission of the configuration data connected between said input/output of said baseband component and said input/output of said radio-frequency component; said second digital multiple conductor connection including: a data line for serial data transmission of the configuration data (pin 27: SI_CDI (DATA)); a bit clock line for transmitting a clock signal (pin 25: SI_CLK), with one clock period each associated with one bit each on the data line (SI_CLK control timing of the serial interface, as recites in TABLE 6); and a selection line for activating said radio-frequency component (pin 9: POR_EXT, as recited in TABLE 3).

Regarding claim 9, Lucent discloses as stated in rejection of claim 8 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones).

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Regarding claim 10, Lucent discloses as stated in rejection of claim 8 above. Lucent also discloses that the transmission configuration comprises a synchronization line (pin 32: PX_ON), for synchronization of the payload data in said radio-frequency component, connected between said input/output of said baseband component and said input/output of said radio-frequency component (synchronization at first data packet, as recited in TABLE 3).

Regarding claim 11, Lucent discloses as stated in rejection of claim 8 above. Lucent also discloses that input/output of said baseband component and said input/output of said radio-frequency component are serial data transmission interfaces (Serial Interface: page 12-13)..

Regarding claim 12, Lucent discloses as stated in rejection of claim 8 above. Lucent also discloses that the baseband component and said input/output of said radio-frequency component are serial data transmission interfaces are configured for unidirectional data transmission from said baseband component to said radio-frequency component (pin 27: SI_CDI (DATA)).

Regarding claim 13, Lucent discloses a transmission configuration (Fig. 2), comprising: a baseband component for processing a baseband signal (BASEBAND IC), said baseband component having an input/output configured for digital data transmission (see all input/outputs of BASEBAND IC connected to W7020 RADIO SUBSYSTEM

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through BASEBAND INTERFACE); a radio-frequency component for conversion of the baseband signal to a radio-frequency signal to be transmitted (W7020 RADIO SUBSYSTEM), said radio-frequency component having an input/output for digital data transmission (see those pins of W7020 RADIO SUBSYSTEM, which are connected to input/outputs of BASEBAND IC through BASEBAND INTERFACE) and being connected, via an interface (BASEBAND INTERFACE), to said input/output of said baseband component for digital transmission of payload data to be transmitted and of configuration data for configuration of said radio-frequency component; a digital interruption request line connected between said baseband component and said radio-frequency component (POR (DELAYED RESET) as recited in TABLE 4)

Regarding claim 14, Lucent discloses as stated in rejection of claim 13 above. Lucent also discloses that the digital interruption request line is configured for initiating resumption of the data transmission of said baseband component through said radio-frequency component (section Power-On Reset and XO Start-up: page 24).

Regarding claim 15, Lucent discloses as stated in rejection of claim 13 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones).

Regarding claim 16, Lucent discloses as stated in rejection of claim 13 above. Lucent also discloses that the transmission configuration further comprises a control line for

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driving a power amplifier (pin 3: TX_ON; Examiner notes that only after TX is turned on, TX AMPLIFIER shown in FIG. 1 is activated) for amplification of the radio-frequency signal connected between said baseband component and said radio-frequency component.

Regarding claim 17, Lucent discloses as stated in rejection of claim 1 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones). A cellular phone inherently works in a cellular system, and communicates with a base station.

Regarding claim 18, Lucent discloses as stated in rejection of claim 8 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones). A cellular phone inherently works in a cellular system, and communicates with a base station.

Regarding claim 19, Lucent discloses as stated in rejection of claim 13 above. Lucent also discloses that the radio-frequency component is configured for mobile radio transmission (page 1: Applications - cellular phones). A cellular phone inherently works in a cellular system, and communicates with a base station.

Remarks

9. No claim is allowed.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Williams (US 6,370,386).

Contact Information

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nader Bolourchi whose telephone number is (571) 272-8064. The examiner can normally be reached on M-F 8:30 to 4:30.


12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David. C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

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JEAN B. CORRIELUS
PRIMARY EXAMINER

35-07